(19) 🔄

(11) Publication number: 09098779 A

Generated Document.

PATENT ABSTRACTS OF JAPAN

(21) Application number: 08185043

(51) Intl. CI.: C12N 9/10 C12P 19/18

(22) Application date: 15.07.96

contracting states: publication: (30) Priority: (43) Date of application 15.04.97 (84) Designated 03.08.95 JP 07198597 (71) Applicant: FUJI SEITO KK (72) Inventor: OGUCHI MASAHISA SANO TAKAFUMI WADA TADASHI **OISHI KAZUO** OTA TOSHIYA YAMAGISHI MASAAKI KUBOTA SATOO SHIZUOKA PREFECTURE

(74) Representative:

SYNTHETASE, ITS (54) TREHALOSE

×

PRODUCTION OF PRODUCTION AND TREHALOSE USING THE

(57) Abstract:

ENZYME

synthetase acting on maltose to obtain a new trehalose PROBLEM TO BE SOLVED: To

pharmaceuticals, foods, cosmetics, etc., by culturing a microorganism belonging to the genus Pseudomonas and having trehalose synthetase producing capacity in a culture medium.

SOLUTION: The objective new belonging to the genus by culturing a microorganism trehalose synthetase is produced on trehalose to form maltose, maltose to form trehalose, acts and collecting the product from producing a trehalose synthetase Pseudomonas and capable of 37°C, optimum temperature of has optimum pH of 6.0-10.0 at trehalose synthetase acts on (FERM P-14747)] in a medium weight of 40,000-80,000 point of 5.0-6.0 and molecular of 40-50°C at pH7.0, isoelectric 45°C at pH7.0, pH stability of the cultured material. The expressed by the formula. and Cd++ and has an amino-5.0-11.0 at 37°C, heat stability e.g. Pseudomonas sp.F-1 terminal amino acid sequence Co++, Zn++, Ni++, Hg++, Cu++ (SDS.PAGE), is inactivated with

COPYRIGHT: (C)1997,JPO